DS-2CD63C2F-IV(S) is a fisheye network camera capable of providing a 360 degree panoramic image of its surveillance scene.

The progressive scan CMOS sensor provides 12 MP high-resolution images.

Up to 14 live view display modes, designed for three mount types and two decoding modes, meet the major needs of different preferences.

An IR range of 50 feet (15 meters) provides good visibility in low or even zero-light environments.

**Available Models:**
- DS-2CD63C2F-IV
- DS-2CD63C2F-IVS: Built-in audio I/O, alarm I/O
## Specifications

<table>
<thead>
<tr>
<th>Feature Set</th>
<th>DS-2CD83C2F-IV</th>
<th>DS-2CD83C2F-IVS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Camera</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/1.7” progressive scan CMOS</td>
<td></td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>0.04 lux @ [f/2.4, AGC on], 0 lux with IR</td>
<td></td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>1/3 to 1/100,000 s</td>
<td></td>
</tr>
<tr>
<td>Slow Shutter</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>Lens</td>
<td>2 mm @ f/2.4, horizontal field of view: 180° (wall mount), 360° (ceiling mount), 360° (table mount)</td>
<td></td>
</tr>
<tr>
<td>Lens Mount</td>
<td>M12</td>
<td></td>
</tr>
<tr>
<td>Day/Night</td>
<td>IR cut filter</td>
<td></td>
</tr>
<tr>
<td>Digital Noise Reduction</td>
<td>30 DNR</td>
<td></td>
</tr>
<tr>
<td>WDR</td>
<td>Digital WDR</td>
<td></td>
</tr>
<tr>
<td><strong>Compression Standard</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video Compression</td>
<td>Main stream: H.264</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sub stream: H.264/MPEG</td>
<td></td>
</tr>
<tr>
<td>H.264 Type</td>
<td>Baseline profile/main profile/high profile</td>
<td></td>
</tr>
<tr>
<td>H.264+</td>
<td>Support only when the display mode is Fisheye View</td>
<td></td>
</tr>
<tr>
<td>Video Bit Rate</td>
<td>256 Kbps to 16 Mbps</td>
<td></td>
</tr>
<tr>
<td>Audio Bit Rate</td>
<td>64 Kbps (6.722.1/6.722.11/16 Kbps (6.726/32 to 160 Kbps (MP2L2))</td>
<td></td>
</tr>
<tr>
<td><strong>Image</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Resolution</td>
<td>4000 x 3072</td>
<td></td>
</tr>
<tr>
<td>Fisheye View Main Stream</td>
<td>50 Hz: 20 fps (4000 x 3072), 25 fps (3072 x 3072), 2560 x 2560</td>
<td></td>
</tr>
<tr>
<td>Maximum Frame Rate</td>
<td>60 Hz: 20 fps (4000 x 3072), 24 fps (3072 x 3072), 30 fps (2560 x 2560)</td>
<td></td>
</tr>
<tr>
<td>Fisheye View Sub Stream</td>
<td>50 Hz: 12.5 fps (720 x 720, 720 x 576)</td>
<td></td>
</tr>
<tr>
<td>Maximum Frame Rate</td>
<td>60 Hz: 15 fps (720 x 720, 720 x 480)</td>
<td></td>
</tr>
<tr>
<td>Image Enhancement</td>
<td>BLC/3D DNR</td>
<td></td>
</tr>
<tr>
<td>Image Setting</td>
<td>Saturation, brightness, contrast, sharpness adjustable by client software or Web browser</td>
<td></td>
</tr>
<tr>
<td>Region of Interest</td>
<td>Supports three fixed regions for each stream</td>
<td></td>
</tr>
<tr>
<td>Day/Night Switch</td>
<td>Auto/schedule/triggered by alarm in Picture Overlay</td>
<td></td>
</tr>
<tr>
<td>Picture Overlay</td>
<td>Logo picture can be overlaid on video with 128 x 128 24-bit bmp format</td>
<td></td>
</tr>
<tr>
<td><strong>Live View Display</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mount Type</td>
<td>Supports table, wall, and ceiling</td>
<td></td>
</tr>
<tr>
<td>Decoding Mode</td>
<td>Supports hardware decoding and software decoding</td>
<td></td>
</tr>
<tr>
<td>Display Mode</td>
<td>180 Panorama View, 4PTZ, Fisheye + 3PTZ, 360 Panorama View, 360 Panorama + PTZ, 360 Panorama + 3PTZ, 360 Panorama + 6PTZ, 360 Panorama + 8PTZ, 360 Panorama + PTZ, Fisheye + 8PTZ, Panorama View, Panorama View, Panorama + PTZ, Panorama + 3PTZ, Panorama + 8PTZ</td>
<td></td>
</tr>
<tr>
<td><strong>Smart Feature Set</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intrusion Detection</td>
<td>Cross a pre-defined virtual line, up to four pre-defined virtual lines supported</td>
<td></td>
</tr>
<tr>
<td>Line Crossing Detection</td>
<td>Enter and loiter in a pre-defined virtual region, up to four pre-defined virtual regions supported</td>
<td></td>
</tr>
<tr>
<td>Heat Map</td>
<td>A graphical representation of visitation density in a configured area</td>
<td></td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Storage</td>
<td>Supports microSD/SDHC/SDXC card (128 GB), local storage, and NAS (NFS, SMB/CIFS), ANR</td>
<td></td>
</tr>
<tr>
<td>Alarm Trigger</td>
<td>Motion detection, video tampering alarm, network disconnected, IP address conflicted, illegal login, HDD full, HDD error</td>
<td></td>
</tr>
<tr>
<td>Protocols</td>
<td>TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1x, OoS, IPv6, Bonjour</td>
<td></td>
</tr>
<tr>
<td>General Function</td>
<td>One-key reset, anti-flicker, heartbeat, password protection, privacy mask, watermark, IP address filter</td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>ONVIF [PROFILE S, PROFILE G], PSIA, CBI, ISAPI</td>
<td></td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Interface</td>
<td>RJ-45 10M/100M/1000M Ethernet port</td>
<td></td>
</tr>
<tr>
<td>Built-In Mic and Speaker</td>
<td>1 built-in microphone, -42 dB; 1 built-in speaker, supports echo cancellation</td>
<td></td>
</tr>
<tr>
<td>Audio Input</td>
<td>1 x 3.5 mm audio input interface</td>
<td></td>
</tr>
<tr>
<td>Audio Output</td>
<td>1 x 3.5 mm audio output interface</td>
<td></td>
</tr>
<tr>
<td>Alarm</td>
<td>1 input, 1 output (up to 24 VDC or 110 VAC 500 mA)</td>
<td></td>
</tr>
<tr>
<td>On-Board Storage</td>
<td>Built-in microSD/SDHC/SDXC slot, up to 128 GB</td>
<td></td>
</tr>
<tr>
<td>Reset Button</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Conditions</td>
<td>Indoor temperature: 14°C to +122°F (-10°C to +50°C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outdoor temperature: -22°C to +140°F (-30°C to +60°C)</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>95% or less [non-condensing]</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>12 VDC ±10%, 0.94 A</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Maximum 14.7 W</td>
<td></td>
</tr>
<tr>
<td>IR Range</td>
<td>49.2 ft (15 m)</td>
<td></td>
</tr>
<tr>
<td>Protection Level</td>
<td>IEC/ES 60068-2-75EN, 20J; ENS0102, up to IK10 for camera housing</td>
<td></td>
</tr>
<tr>
<td>PB6</td>
<td>6.46” x 6.02” x 1.95” (164 mm x 152.8 mm x 49.5 mm)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>3.09 lbs (1400 g)</td>
<td></td>
</tr>
</tbody>
</table>
Dimensions

<table>
<thead>
<tr>
<th></th>
<th>43.8(1.72) / 49.5(1.95)</th>
<th>164(6.46)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit: mm (inch)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Accessories (Not Included)

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-FE</td>
<td>Junction Box</td>
</tr>
<tr>
<td>AB-FE</td>
<td>Inclined Ceiling Mount</td>
</tr>
<tr>
<td>WML</td>
<td>Wall Mount Long</td>
</tr>
<tr>
<td>CPM</td>
<td>Ceiling Pendant Mount</td>
</tr>
<tr>
<td>CPME</td>
<td>CPM Extendable Pole</td>
</tr>
<tr>
<td>PM</td>
<td>Pole Mount</td>
</tr>
<tr>
<td>CM</td>
<td>Corner Mount</td>
</tr>
<tr>
<td>RPM</td>
<td>Parapet Wall Mount</td>
</tr>
<tr>
<td>PC-FE</td>
<td>Pendant Cap</td>
</tr>
</tbody>
</table>